Completed as sheet in oil well 4/2/17

FILE NOTATIONS		
Entered in NID File	Checked by Chief	
Entired On S.R. Sheet	Copy NID to Field Office	*********
Location Map Pinned	Approval Letter	
Card Indexed	Disapproval Letter	
IW R for State or Fee Land		
COMPLETION DATA:		
Date Well Completed 4/2/77	Location Inspected	
OW SI WW TA	Bond released	
GW OS PA	State of Fee Land	
Driller's Log	FILED	
Electric Logs (No.)		
	GR GR-N Micro	÷
Lat	nicOthers	

(DW 8.22-9

St. Croix Dut Copy in the

ENVIRONMENTAL ASSESSMENT for
Utah State #1 & #2
Wildcat Oil and/or Gas Wells

on
State of Utah ML 33432
Section 36
Township 24 South, Range 11 East
Emery County, Utah

January 13, 1977

Prepared by:
Utah Division of Oil, Gas, and Mining
Patrick L. Driscoll, Chief Petroleum Engineer

I. DESCRIPTION OF THE PROPOSED ACTION:

C.B. Woodward, Consultant, plans to drill on State oil and gas lease No. ML 33432, Section 36, Township 24 South, Range 11 East, SIBM, Emery County, to determine the liquid hydrocarbon potential of the Triassic Moenkopi Formation. Maximum depths of drilling will be about 300 feet.

The proposed locations are shown on the attached plat.

II. DESCRIPTION OF THE ENVIRONMENT POTENTIALLY AFFECTED:

The area is in an extremely dry wash on the southeast flank of the San Rafael Swell, known as the San Rafael Reef. The Reef immediately to the SE of the sites is characterized by east-facing long dip slopes eroded on the Kayenta and Navajo Formations, with steep west-facing cliffs eroded into the above formations as well as the Wingate Formation. The elevation of the two sites is between 5400 and 5440 feet.

Precipitation in this area is between 8 to 10 inches annually.

The flora and fauna of the area coincides with the general known desert surroundings; outside of the basic native desert terrain, there are several manmade access roads to mining areas. As a matter of fact, the access road to these locations follow, and at terminal end, are less than 25 feet from the access route to the two proposed sites.

Access to the area is via a number of dirt roads that serve the Temple Mountain uranium mining district. This area has been producing ore since 1912 when radium ore was shipped. In 1948, mining activity resumed with uranium ore production and a fairly high level of mining activity has persisted to date. Drilling activity has been high and in general the area has been heavily impacted by minerals exploration.

A review of two core holes specifically drilled for mineralized projects indicated a disturbance of less than 100 to 150 feet. It is significant to note that the proposed depth of the oil wells under consideration shall

not exceed the depth of the previously drilled core holes. A series pictures were taken of the general area. Significantly, two of the pictures represent and enhance the area. The proposed sites are in the near proximity.

III. PROBABLE IMPACT OF THE PROPOSED ACTION ON THE ENVIRONMENT:

The ground disturbance will be minimal due to the extremely small locations and a relatively short drilling time.

IV. MITIGATIVE MEASURES INCLUDED IN THE PROPOSED ACTION:

Stabilizing of the proposed drill pad is planned by the operator following completion of the two test wells. The area will be graded, leveled, and seeded, as indicated.

V. ALTERNATIVES TO THE PROPOSED ACTION:

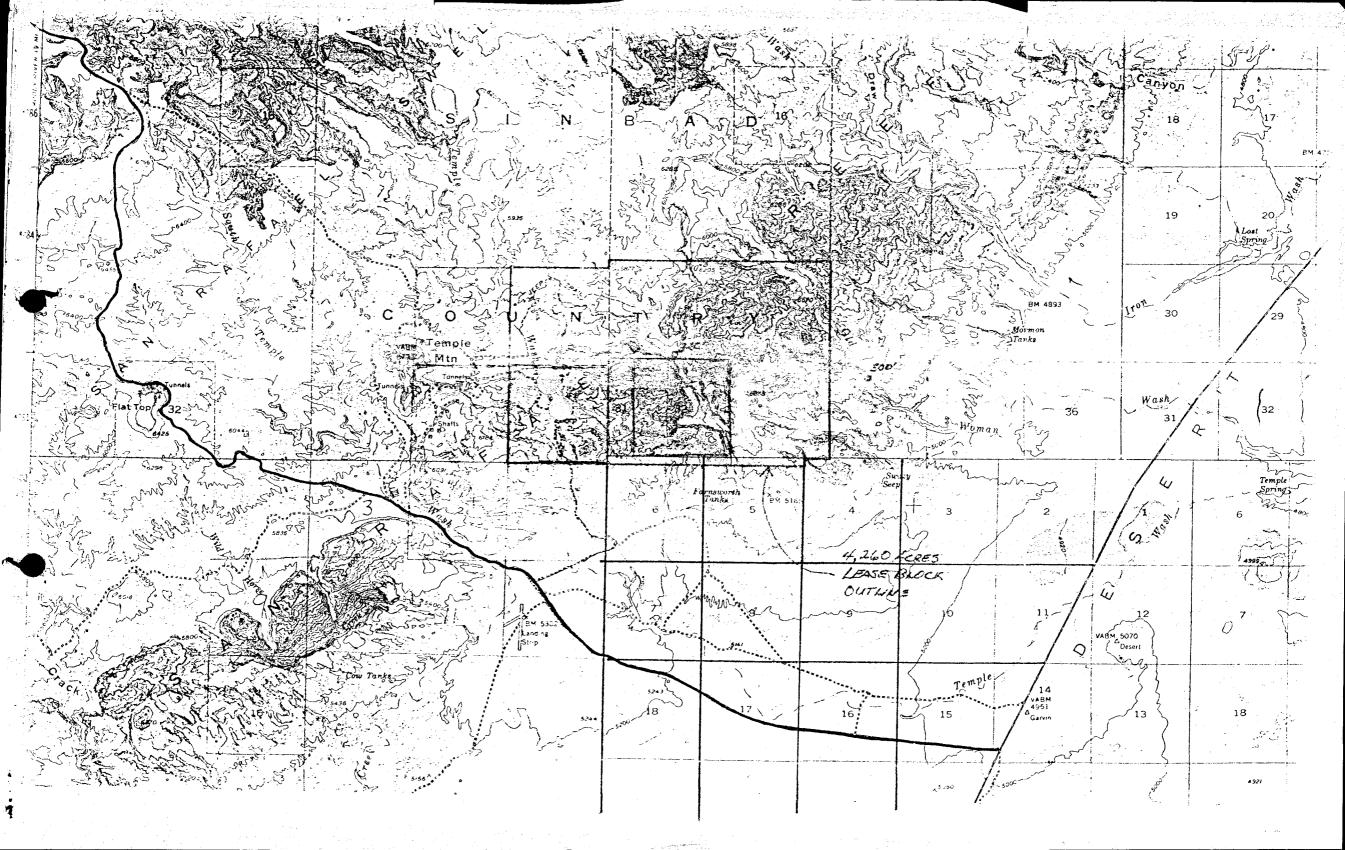
There is no alternative location within the area which would be less environmentally sensitive than the site under consideration.

The only other viable alternative would be to disapprove the applications to drill. However, this could result in the operator losing his lease followed by prolonged and expensive litigation against the state. In addition, denial would eliminate possible development in the area.

VI. SUMMARY AND RECOMMENDATIONS:

It is felt that minimal disturbance surrounding the native regime will be incurred by granting permission to drill the two proposed wells. In fact, the two previously completed core holes have probably disturbed the area far more than the wells under consideration.

It is, therefore, the recommendation of the Division cf Oil, Gas, and Mining, that the applicant be allowed to actively engage in the drilling of two potential oil and/or gas wells in the vicinity of the two core holes previously approved by the Division of State Lands.



Scott M. Matheson Governor



James Edwin Kee State Planning Coordinator

STATE OF UTAH

Office of the STATE PLANNING COORDINATOR

118 State Capitol Salt Lake City, Utah 84114 (801) 533-5246

February 7, 1977

Ron Daniels Division of Oil, Gas and Mining 1596 West North Temple Salt Lake City, Utah 84116

Dear Ron:

The Environmental Coordinating Committee has reviewed the Environmental Assessment for Utah State #1 & #2 Wildcat Oil and/or Gas Wells on State of Utah ML 33432 Section 36 Towrship 24 South, Range 11 East, Emery County, Utah and unanimously considers the document to be adequate.

Sincerely,

Chauncey G. Powis

Environmental Cocrainator

CGP/jn

SPECIAL TO

ALWAY.

- Kn //un

St. Croix Exploration Company

St. Paul, Minnesota 551 612 2020 4333 457-3208 2471 Angell Road petroleum ventures

February 23, 1977

State Of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: Lease ML - 33432

Gentlemen:

Enclosed are two applications for Permit to Drill, Emery County, Utah. The attached location plat will be confirmed by a registered surveyor and submitted for approval in the near future.

If additional information is required, please contact us at the above address.

Very truly yours,

Stanley R. Tyler Vice President





Form OGC-1a

Approved by ...

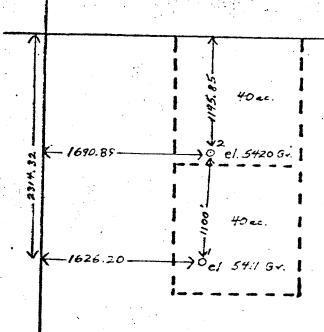
Conditions of approval, if any:

STATE OF UTAH

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

DEPARTMENT OF NATURAL RESOURCES 5. Lease Designation and Serial No. DIVISION OF OIL, GAS, AND MINING ML 33432 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK la. Type of Work 7. Unit Agreement Name DRILL 🛨 PLUG BACK DEEPEN | b. Type of Well Multiple [$_{\mathrm{Well}}^{\mathrm{Oil}}$ Single Zone 8. Farm or Lease Name Gas Well Other 2. Name of Operator Utah State 9. Well No. St. Croix Exploration Co.
3. Address of Operator 10. Field and Pool, or Wildcat 2471 Angell Road, St. Paul, Minnesota 55118
4. Location of Well (Report location clearly and in accordance with any State requirements.*) <u> Wildcat</u> 11. Sec., T., R., M., or Blk. and Survey or Area 2314.32 FNL, 1626.2 FWL Sec. 36 Same At proposed prod. zone Sec.36,T24S,R11E 14. Distance in miles and direction from nearest town or post office* 12. County or Parrish 13. State 21 miles North-Hanksville

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drlg. line, if any) Emery County, 16. No. of acres in lease 17. No. of acres assigned to this well 640 40 18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. 19. Proposed depth 20. Rotary or cable tools 1100' (#2) 3001 Rotary 21. Elevations (Show whether DF, RT, GR, etc.) 22. Approx. date work will start* 5411 Gr. On receipt of permit 23. PROPOSED CASING AND CEMENTING PROGRAM Size of Hole Size of Casing Quantity of Cement Weight per Foot Setting Depth 7 7/8" 53H 17# 3001 160 sx Drill with air to total depth coring sections exhibiting Proposed Program: oil shows, running logs, set 5 in. casing to total depth. circulating cement to surface. Surface formation: Triassic Shinarump Formation at T.D.: Triassic Moenkopi Location plat attached (612) 457-3208 Telephone: IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. $\overline{24}$. Date 2-21-77 Signed Stan Vice Bresident (This space for Permit No



Sec. 36, T.245, R.11 E. M.L. 33+32 State of Utah

LOCATION PLAT

St. Croix Exploration Company 2471 Angell Road St. Paul, Minnesota 55118

Well No. 1: 1626.20 FWL, 2314.32 FNL, Sec. 36, T. 24 S., R. 11 E. (Ground Elevation - 5411)

Well No. 2: 1690.89 FWL, 1195.85 FNL, Sec. 36, T. 24 S., R. II E. (Ground Elevation 5420)

Scale | in. = 1000 ft.

St. Croix Exploration Co.

February 22, 1977

Stanley R. Tyler Vice President STATE OF UTAH DIVISION OF OIL, GAS, AND MINING G5 5 10 Wulson 84/11

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March 2, 1977

St. Croix Exploration Company 2471 Angell Road St. Paul, Minnesota 55118

Re: Well No's:

Utah State #1, Utah State #2 Sec. 36, T. 24 S, R. 11 E,

Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3 (c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer

HOME: 582-7247 OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number's assigned to these wells are:

#1: 43-015-30048

#2: 43-015-30049

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT Director

cc: Division of State Lands

DIRECTOR
PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANT
ALL
RETURN TO KATHER
FOR FILING

March 10, 1977

Memo to File:

Re: St. Croix Petroleum Company State #1 Sec. 36, T. 24 S., R. 11 E. Emery County, Utah

This office was notified on the 8th of March 1977, that a rotary rig was to be in on the above location on the same date.

The spud date for this well was to be somewhere around the 9th of March 1977.

PATRICK L. DRISCOLL CHIEF PETROLEUM ENGINEER

/tlb

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

SUBMIT IN DUPLIC
(See other instructions
on reverse side)

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i i	DIVISION OF	OIL,	GAS, AN	ID MININ	G				1 -		ATION AND SERIAL NO	5.
-										L 334	·	_
WELL CO	MPLETION	1 Ot	R RECO	MPLETIC	I NC	REPORT	A١	ID LOG	* 6. IF IN	DIAN, ALI	OTTEE OR TRIBE NAM	E
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b. TYPE OF COM						wait	tin	g on				
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2. NAME OF OPERA			_						U	tah S	State	_
3. ADDRESS OF OPE	ix Explo	rat	ion Co						9. WELL	NO.		
2471 An	gell Rd.	. S	t. Pau	1 MN	551	1 2			10. FIEL	L D AND PO	OL, OR WILDCAT	-
4. LOCATION OF WE	LL (Report local	ion cle	arly and in	accordance u	oith an	y State requi	remer	ite)*		Vildc		
At surface			231	4.32 F	NL					T., R., M.	, OR BLOCK AND SURVE	Ÿ
At top prod. int	terval reported b	elow	162	6.2 F	WL						F 0.40 P	
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15. DATE SPUDDED			ED 17. DAT	E COMPL. (R	eady to	o prod.) 18			REB, RT, GR, ETC.)* 19.	ELEV. CASINGHEAD	-
3/28/77 20. TOTAL DEPTH, MD			K T.D., MD &	100				<u>11' Gr.</u>			5412'	_
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26. TYPE ELECTRIC			• .							27.	WAS WELL CORED	-
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	**************************************								_			-
31. PERFORATION REC	CORD (Interval, e	ize and	l number)		<u> </u>	32.	A	ID, SHOT, FI	RACTURE, CEM	ENT SQ	UEEZE, ETC.	-
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33.*			·-·- <u>-</u>			UCTION						•
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FLOW. TUBING PRESS.	CASING PRESSU		ALCULATED	OIL—BBI	<u>.</u>	GAS-	MCF.	WA .	TER—BBL.	OIL	GRAVITY-API (CORR.)	-
34. DISPOSITION OF G	AS (Sold. used for	r fuel.	vented, etc.	<u> </u>						NB055-		
		,							TEST WIT	RESSED	B1	
35. LIST OF ATTACH	MENTS					700,000 100						-
GRN vel	ocity-de	ensi	ty	core a	ına1	yses						
oo. 1 nereby certify	that the forego	ing and	l attached i	nformation is	comp	lete and corre	ect a	determined i	from all availab	le record	s	•
SIGNED	Stant	esp	1) N	LE TITL	E V	ice Pre	esi	dent	n	ATE 7	7/19/77	

INSTRUCTIONS

or both pursuant, to describe Federal and the number of copies to be submitted, pursuant, to present this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 83. Submit a separate report (page) on this form, adequately identified, for act and interval to be separately produced, showing the additional data pertinent to such interval.

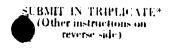
Hem 29: "Sack Cement: Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) Consult local State should be listed on this form, see item 35.

| New 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. or Federal office for specific instructions.

	a.	TRUE VERT. DEPTH		
GEOLOGIC MARKERS	TOP	MEAS. DEPTH	0 8 5	
38. GBOLO		NAM.	Surface sand Moss back Fm.	
'S THERROF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING EN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		See Core Analyses	
OSITY AND CONTENT ISED, TIME TOOL OP	BOTTOM			
OUS ZONES: TANT ZONES OF POR TESTED, CUSHION I	TOP			
37. SUMMARY OF POROUS ZONES: 8HOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THERROF; DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING	FORMATION			

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING



DIVISION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION AND BERIAL NO
	1123432
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTES OR TRIBE NAM
OIL WAR OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
St-Croix EXPloration 8. ADDRESS OF OFFRATOR	Utak State
1360 Shelard Tower, Minneapolis, Mr. 55426 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*	
See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCAT
2314 FNL, 1626 FWL.	WI OCST. 11. BBC., T., B., M., OB BLK. AND
	SURVEY OR AREA
14. PERMIT NO.	Sec 34, T249, RII=
10. SLEVATIONS (Show whether Dy. RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
	Emery Utah
16. Check Appropriate Box To Indicate Nature of Notice, Report, or O	ther Data
NOTICE OF INTENTION TO:	INT REPORT OF:
TEST WATER SEUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT SHOOT OR ACIDIZE ARANDOMS	ALTERING CABING
SHOUTING OR ACIDIZING	ABANUONMENT*
(Other)	of multiple completion on Well
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical nent to this work.)	
This well was drilled to Trof 2051 in Jul	y 1977.
Testing Indicated This well was inc	apable of
Producing, oil in commercial quantiti	es, The
Study of the Patential of the Chin	
Moenkop, oil bearing formations int	his well
and others drilled and cored Cantin	
Recovery Proposals have been submi	•
office for consideration which sh	ould lead
To sproposal-which will be submit	led to your
office before further field operat. 18. I hereby certify that the foregoing is true and correct	ions are begun
SIGNED Style TITLE VICE Pres	DATE 5-19-82
(This space for Federal or State office use)	
APPROVED BY TITLE TITLE	DATE

CORE ANALYSIS RESULTS

ST. CROIX EXPLORATION COMPANY

ST. CROIX NO. 1

TEMPLE MOUNTAIN

EMERY COUNTY, UTAH

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31

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CORE LABORATORIES. INC.

Petroleum Reservoir Engineering
DALLAS, TEXAS

Page	No	1	

2.64

2.65

CORE ANALYSIS RESULTS

Chert.ch	
ST. CROIX NO. 1 Core Type DIAMOND 2" Date Report 3-15-7')5
Temple Mountain Drilling Fluid GEL Analysts RG	
County EMERY State UTAH Elev Still 'GL Location SW SE NW SEC 36-T2LS-R11E	
Lithological Abbreviations Lithological Abbreviations SANDY-SDY MEDIUM-MED CONSTITUTE OF CONGLOMERATE-CONG SHALY-SHY MEDIUM-MED COARSE-CEE CRANI-GEN CRANI	
SAMPLE DEPTH PERT PERT	
Control Cont	ITLY BL/
DEPTH NUMBER PER P	v/ -w/
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14 67.0-68.0 1.7 11.5 15.3 46.0 0.64 SS Tn FG V/Cly Sl/Calc	7
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15 68.0-69.0 2.6 11.5 15.3 40.7 0.64 SS Tm FG V/Cly Sl/Calc Pyr	.64
16 69.0-70.0 0.38 12.4 16.6 42.7 0.75 SS Tm FG V/Cly Sl/Calc	
17 70.0-71.0 0.20 12.2 32.7 40.8 1.43 SS Tn FG V/Cly Sl/Calc	
18 71.0-72.0 0.12 11.2 31.8 30.0 1.29 SS Tn FG V/Cly Sl/Calc Pyr	_
19 72.0-72.8 0.11 7.9 2.5 49.6 0.07 SS Wh FG V/Cly Sl/Calc Pyr	.66
20 76.3-76.8 0.04 6.6 13.7 39.6 0.32 SS Tn FG V/Cly	
21 88.7-89.1 0.28 9.9 24.8 31.7 0.89 SS Tn FG V/Cly	
22 93.0-94.0 0.13 8.4 0.0 52.4 0.00 SS Wh FG V/Cly S & P	.65
23 94.0-95.0 0.19 6.9 0.0 48.3 0.00 SS Wh FG V/Cly S & P Shy Ca	3
24 95.0-96.0 0.12 7.0 1.5 63.9 0.04 SS Wh FG V/Cly S & P Shy Ca	
25 96.0-97.0 0.20 6.4 0.0 60.5 0.00 SS Wh FG V/Cly S & P Shy Ca	3

Core #1 - Retorted Oil Gravity = 25 Deg. Core #2 - Retorted Oil Gravity = 22 Deg.

3.1

0.66

16

18

30

14.2

13.1

13.9

14.0

11.2

13.3

24.2

27.9

24.7

27.1

24.7

23.2

29.6

29.3

28.8

20.3

33.5

33.3

1.29

1.36

1.29

1.43

1.00

1.14

SS In VFG V/Cly

SS In VFG V/Cly

SS In FG V/Cly

SS In FG V/Cly

SS In FG V/Cly

SS In VFG V/Cly

BEST COPY AVAILABLE

CORE LABORATORIES, INC.



Petroleum Reservoir Engineering

RP-2-5305 FILE... TEMPLE MOUNTAIN COMPANY ST. CROIX EXPLORATION COMPANY FIELD DATE __3-15-77 __COUNTY__EMERY

ST. CROIX NO. 1 ELEV. 5111' GL WELL_ LOCATION SW SE NW SEC. 36-T245-R11E STATE UTAH

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100"

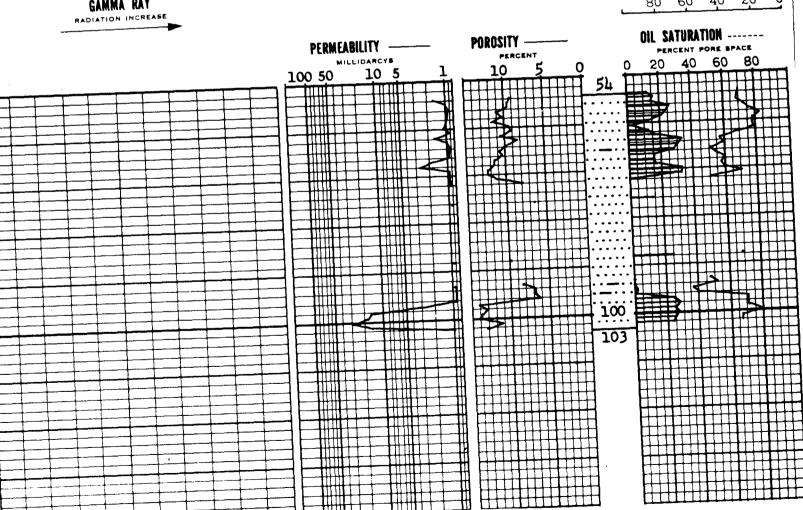
CORE-GAMMA SURFACE LOG

(PATENT APPLIED FOR)

GAMMA RAY

COREGRAPH

TOTAL WATER -PERCENT TOTAL WATER 80 60 40 20



CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL:

Shinarump - 54.0-72.8 Feet

THE PROPERTY OF THE PROPERTY O	19	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	34. x
FEET OF CORE RECOVERED FROM ABOVE INTERVAL		AVERAGE CONNATE WATER SATURATION:	25 (e)
FEET OF CORE	19	PER CENT OF PORE SPACE	20 (2)
AVERAGE PERMEABILITY:	0.69	DIL GRAVITY: OAPI	20 (e)
MILLIDARCYB		DRIGINAL SOLUTION GAS-OIL RATIO:	
PRODUCTVE CAPACITY: MILLIDARCY-FEET	13.1	CUBIC FEET PER BARKEL	1.05 (e)
AVERAGE POROSITY: PER CENT	10.4	ORIGINAL FORMATION VOLUME FACTOR: BARRELS BATURATED DIL PER BARREL STOCK-TANK DIL	1.05 (0)
AVERAGE RESIDUAL DIL SATURATION:	18.9	CALCULATED ORIGINAL STOCK-TANK DIL IN PLACE: BARRELS PER ACRE-FOOT	577
PER CENT OF PORE SPACE			

barrels per acre-foot, assuming production could be Calculated maximum solution gas drive recovery is continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

DRMATION NAME AND DEPTH INTE	QVAL:	Shinarump - 97.0-103.0 Feet		
EET OF CORE RECOVERED FROM	6	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE		29.1
BOVE INTERVAL	6	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE		25 (e)
NCLUDED IN AVERAGES	13.8	OIL GRAVITY: OAPI		20 (e)
REDUCTVE CARACITY:	82.8	ORIGINAL SOLUTION GAS-OIL RATIO: Cubic feet per barrel		
ITTLLIDARCY-FEET	13.3	DRIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED DIL PER BARREL STOCK-TANK DIL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.05 (
AVERAGE RESIDUAL DIL SATURATION: PER CENT OF PORE SPACE	25.3	CALCULATED DRIGINAL STOCK-TANK DIL IN PLACE: BARRELS PER ACRE-FOOT		737

barrels per acre-foot, assuming production could be Calculated maximum solution gas drive recovery is continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

(*) Refer to attached letter. (m) Measured (e) Estimated (c) Calculated

INTERPRETATION OF DATA

54.0-72.8 Feet - Characteristics indicating oil production, however, because of probable limited gas in solution, primary production may be limited. A formation treatment will be needed.

76.3-89.1 Feet - Insufficient samples analyzed to permit interpretation.

93.0-97.0 Feet - Non-productive.

97.0-103.0 Feet- Oil productive, however, production will be limited due to low gas in solution. Formation treatment will be necessary.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed solutions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors. tion is given to overall reservoir characteristics and economic factors.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number			
Operator <u>St. Croix Explo</u>			
Address <u>2471 Angell Roa</u>	id, St. Paul, MN.		**************************************
Contractor MGM Drillin	ıg		
Address <u>Moab</u> , Utah			
Location <u>SE</u> 1/4 <u>NW</u> 1/4; Sec. <u>3</u>	6; T. 24 ∰; R. 11 E;	Emery	County
Water Sands:			
Depth: From - To -	<u>Volume:</u> Flow Rate or Head -	Qual Fresh c	<u>lity:</u> or Salty -
1. 144 154		_Slightly	sulfur_
2.			
3.			
4.			
5.			
	(Continue on Reverse Side	if Necessa	ry)
Formation Tops:	Moss b	e sand ack pi	8 - 154 '
(b) Report on this form as	y of forms, please inform thi provided for in Rule C-20, G les of Practice and Procedure	anawal Dula	S

(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.



ST. CROIX EXPLORATION COMPANY

X850CMAEXOCXPAXROMAQXXXXXXXXXXXXXXX RHOGONINGTONICX MANAGEMENT SERVICE MINNEAPOLIS, MN 55426 61/2x/x854x1x87x

1360 Shelard Tower 612/546-3903

Mindeapotics Mindexoto 55492 872733879787

May 14, 1982

Ms. Cari Furse State of Utah Natural Resources and Energy Oil, Gas & Mining 4241 State Office Building Salt Lake City, Utah

Dear Ms. Cari Furse:

Enclosed are "Sundry Notices and Reports on Wells" Numbers 1, 2, 5 in Sec 36, T24S, R11E. Emery County, Utah

We regret any inconvenience caused by our not filing these reports timely. We shall file them monthly from this time forward.

Well reports on wells 3 and 4 in Section 36 and on wells 1 and 3 in Section 32 will be completed Monday of next week.

We are conducting geological studies on the shallow and deep formations which should be completed within 90 days and lead us to propose on going field operations.

We hope this fulfills our requirements.

Sincerely yours,

Stanley R. Tyler Vice President

Enclosures SRT: jd

TE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

51	BMF	TRIPLICATE*
		tructions on
	TOV er	se side)

		IMENT OF NATURAL RESOURCES	l f
	DIVI	SION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION AND SERIAL W
(Do not	SUNDRY NO	TICES AND REPORTS ON WELLS possels to drill or to deepen or plug back to a different re CATION FOR PERMIT—" for such proposals.)	ML 33432 6. IF INDIAN, ALLOTTES OR TRIBE NA
OIL XX	WELL OTHER		7. UNIT AGREEMBNT NAME
St. Cr	oix Exploratio	n	8. FARM OR LEASE NAME Utah State
1360 S	helard Tower,	Minneapolis, MN 55426	9. WBLL NO.
4. LOCATION OF See also space At surface	well (Report location ce 17 below.)	clearly and in accordance with any State requirements.	10. FIELD AND FOOL, OR WILDCAT Wildcat
	FNL, 1626 FWI		11. anc., 7., a., M., OR BLE. AND AUGUST OR AREA Sec 36, T24S, R11E
API 43-	015-300048-00	18. BLEVATIONS (Show whether DF, RT, GR. etc.) 5411 Gr	Emery Utah
6.	Check A	Appropriate Box To Indicate Nature of Notice,	Report, or Other Data
	NOTICE OF INT		SUBSEQUENT SEPORT OF:
TRET WATER FRACTURE TI SHOOT OR AC REPAIR WELL (Other)	REAT	PULL OR ALTER CASING WATER SHUT- MULTIPLE COMPLETE PRACTURE THE ABANDON® SHOUTING OR CHANGE PLANS (Other) (Note:	EATMENT ALTERING CARING

No further work is planned until Project Review is completed.



DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct SIGNED	TITLE Vice President	DATE June	30, 1982
(This space for Federal or State office use)			\
APPROVED BY COMMAN. IS OF APPROVAL, IF ANT:	TITLE	DATE	· ·



ST. CROIX EXPLORATION COMPANY

1360 Shelard Tower Minneapolis, MN 55426 612/546-3903

July 30, 1982



Ms. Cari Furse
State of Utah
Natural Resources and Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah

DIVISION OF OIL, GAS & MINING

Dear Ms. Furse:

Enclosed are the monthly "Sundry Notices and Reports of Wells" Numbers 1 and 3, Sec. 32, T24S, R12E, and Numbers 1, 2, 3, 4, and 5, Sec. 36, T24S, R11E, Emery County.

If you have any questions, please give us a call.

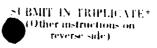
Sincerely,

Stanley R. Tyler

Vice President

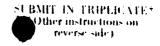
Encl. jd

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING



DIVISIO	N OF OIL, GAS, AND	MINING	5. LEASE DESIGNATION IND SERIAL
SUNDRY NOTICE (Do not use this form for propose	CES AND REPORTS	S ON WELLS	ML 33432 6. IF INDIAN, ALLOTTER OR TRIBE N
(De not use this form for proposal Use "APPLICAT	TON FOR PERMIT—" for su	ch proposais,)	
OIL WELL OTHER	5	A PARTON PO	7. UNIT AGREEMENT NAME
St. Croix Exploration		1 V B B V J	8. FARM OR LEASE NAME
ADDRESS OF OPERATOR			Utah State
1360 Shelard Tower, Mir	nneapolis, MN 554	26 AUG 0 6 1982 -	9. WELL NO.
LOCATION OF WELL (Report location clesses also space 17 below.) At surface	arly and in accordance with		10. FIELD AND POOL, OR WILDCAT
,		DIVISION OF	Wildcat
2314 FNL, 1626 FWL		OIL, GAS & MINING	SUBVEY OR AREA
. PERMIT NO.	15. BLEVATIONS (Show whether		Sec 36, T24S, R11E
API 43-015-300048-00	5411 Gr	r DF, RT, GR, etc.)	Emery Utah
Check App	ropnate Box To Indicate	Nature of Notice, Report, or	Oth - D
NOTICE OF INTENTIO			Other Data
TEST WATER SHUT-OFF	LL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
	LTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CASING
	ANDON®	SHOUTING OR ACIDIZING	ABANDONMENT®
(Other)	X	(Other) (Note: Report result	its of multiple completion on Weil
No further work	c is planned until	Project Review is com	pleted.
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Q.			
I hereby certify that the foregoing is to	and coffeet		7.170.100
SIGNED MANUALLY	TITLE _	Vice President	DATE7/30/82
(This space for Federal or State office	use)		
APPROVED BY	TITLE		DATE

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING



	ML 33432
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservois Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTES OR TRIBE NAM
OFL WAS OTHER	7. UNIT AGREEMBNY HAMB
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
St. Croix Exploration	litah Stata
3. ADDESS OF OPERATOR	Utah State
1360 Shelard Tower, Minneapolis, MN 55426	ta e e
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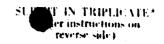
No further work is planned until Project Review is completed.



DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true-and coffect SIGNED	TITLEVice President	DATE 8-30-82	•
(This space for Federal or State office use) APPROVED BY CUMPILE 'S OF APPROVAL, IF ANT:	TITLE	DATE	•

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING



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No further work is planned until Project Review is completed.



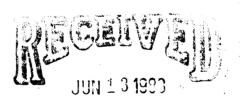
DIVISION OF OIL, GAS & MINING

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DIVISION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION AND SERIAL NO ML 33432
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No further work is planned intil Project Review is completed.



DIVISION OF OIL GAS & MINING

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APPROVED BY	TITLE		DATE_	*************	

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DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

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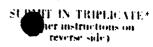
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17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting an neas to this work.)

No further work is planned until Project Review is completed.

18. I hereby certify that the foregoing is true and correct SIGNED Manually B. Myller	TITLE Vice President	DATE July 11, 1983
(This space for Federal or State office use)		
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DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING



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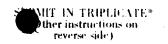
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No further work is planned until Project Review is completed.



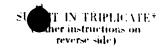
18. I hereby county that the foregoing is true and correct SIGNED	TITLE Vice President	DATE 9/09/83	
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DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING



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No further work is planned until Project Review is completed.

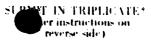


DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct			
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DEPARTM OF NATURAL RESOURCES	
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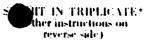
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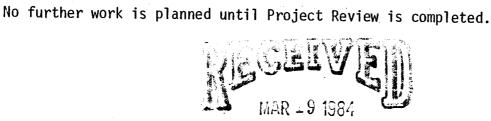
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DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING



SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	5. LEASE DESIGNATION AND SERIAL NO ML 33432 6. IF INDIAN, ALLOTTES OR TRIBS NAM	
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DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING



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ST. OF UTAH DEPARTMENT OF NATURAL RESOURCES

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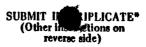
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SEE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

SUBMIT IDERIPLICATE*
(Other in pactions on reverse side)

DIVISION OF OIL	, GAS, AND MINING	5. LEASE DESIGNATION AND SERIAL NO.
		ML 33432
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St. Croix Exploration		8. PARM OR LEASE HAMB
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430 First Avenue North, Suite #		1
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No further work is planned	until Project Review is complet	RECEIVED
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ngen.		DIVISION OF OIL GAS & MINING
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I hereby certify that the foregoing is true and correct		
SIGNED MENLEY ST. WHEY	TITLE Vice President	
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING



SUNDRY NOTICES	AND REPORTS ON WELLS Irill or to deepen or plug back to a different reserve FOR PERMIT—" for such proposals.)	5. LEASE DESIGNATION AND SERIAL NO. ML 33432 6. IF INDIAN, ALLOTTES OR TRIBE NAME DIR.
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St. Croix Exploration		Utah State
430 First Avenue North, Sui	te #640. Minneapolis. MN 5540	9. WELL NO.
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***************************************	(Other)	ZING ABANDONMENT*
	Clearly state all pertinent details, and give pertine led, give subsurface locations and measured and tru	rt results of multiple completion on Well Recompletion Report and Log form.)
No further work is plan	med until Project Review is co	RECEIVE
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		DIVISION OF OII GAS & MINING
	•	AVO & MIMING
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. I hereby certify that the foregoing is true and	correct	
SIGNED MENLEY BLUE	TITLE Vice President	August 10, 1984
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

430 1ST AVENUE NORTH, SUITE 640 MINNEAPOLIS, MINNESOTA 55401 612/343-0310

RECEIVED

September 20, 1984

Ms. Vicki Carney
Natural Resources & Energy
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

SEP 2 4 1984

DIVISION OF OIL GAS & MINING

Dear Ms. Carney:

Enclosed please find a letter from Mr. Stanley R. Tyler, president of St. Croix Exploration, regarding the six wells in Emery County, Utah.

I hope this is satisfactory in answering your questions about the status of the wells. As always, please contact us with any questions that may arise.

Sincerely,

Patrice M. Carlson

atrice Carlson

Enclosure

:pmc

430 1ST AVENUE NORTH, SUITE 640 MINNEAPOLIS, MINNESOTA 55401 612/343-0310

September 20, 1984

State of Utah
Natural Resources & Energy
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Monthly Production Reports Emery County, Utah

Gentlemen:

During our drilling activities in Emery County (dba St. Croix Exploration) which began in 1977 and continues to the present time, we have encountered oil saturation in five (5) to seven (7) zones of interest ranging from the Mossback sandstone member of the Chinle formation, the Moenkopi sands and limestones and the Permian, Kaibab limestone.

Early drilling and core analyses gave significant figures for oil in place in the Mossback sand, ranging from 500 to 945 barrels of oil per acre foot in place. The gravity of this oil varied between 170 and 270 API.

Drilling to the deeper zones of interest confirmed additional oil accumulation in sands and limestones.

It became obvious there was a lack of reservoir energy in these formations. We drilled at varying depths and locations in an effort to prove reservoir continuity and possibly establish primary commercial oil production.

Pipe was set on several wells and they were perforated. Unfortunately this did not establish production through normal completion activities.

We became interested in determining what methods were available to the industry for recovering low gravity oil. This led to research into the many techniques available. This took time, but has helped in developing a microwave test program that is expected to start late this year.

September 20, 1984 State of Utah Page Two

The wells previously drilled have been left in a condition to permit reentry in order to test the research tools.

We have not established commercial production from any of our wells and would prefer to list them as temporarily shut-in. Upon establishing production we will promptly file monthly production reports.

B. hyler

Sincerely,

Stanley R. Tyler President

SRT:pmc

430 1ST AVENUE NORTH, SUITE 640 MINNEAPOLIS, MINNESOTA 55401 612/343-0310

RECEIVED

MAR O 1 Jan

DIVISION OF OIL GAS & MINING

February 27, 1985

Mr. William Moore
Oil and Gas Field Specialist
State of Utah - Natural Resources
355 West North Temple
3 Triad Center, Suite #350
Salt Lake City, Utah 84180-1203

RE: Utah State 1-5 Sec 36, T24S, R11E Emery County, Utah Utah Lease No. ML-33432

Dear Mr. Moore:

We have caused the pits used in drilling these wells to be filled and the locations cleaned up as you requested.

Signs are being made and will be installed, probably within 45 days.

We intend to monitor the results of our futher drilling and testing activities in order to avoid these problems in the future.

Sincerely,

Stanley R. Tyler

President

SRT:pmc

430 1ST AVENUE NORTH, SUITE 640 MINNEAPOLIS, MINNESOTA 55401 612/343-0310

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of Lease No. ML33432 and hereby designates:

Rainy River Resources, Inc. 430 First Avenue North Suite #640 Minneapolis, MN 55401

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the leases and regulations applicable thereto and on whom the Director of the Division of State Lands or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to:

Section 36, T24S, R11E, Emery County, Utah, as part Ltan State #/
of Lease No. ML33432

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Division of State Lands or his representative.

The lessee agrees promptly to notify the Division of State Lands of any change in the designated operator.

Steve Heidecker, President

Nugget Oil Corporation

7850 Metro Parkway, Suite #208

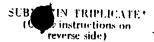
Bloomington, MN 55420

Date 4/15/85

Stanley R. Tyler, President
St. Croix Exploration Company
430 1st Avenue North, #640

Minneapolis, MN 55401 $\frac{A - 1/-85}{}$

Date



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DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION AND SERIAL NO.
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Rainy River Resources dba St. Croix Exploration	8. FARM OR LEASE NAME Utah State
430 1st Ave. N. Suite 640, Minneapolis, MN 55401	9. WHIL NO.
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Plan for Plugging and Abandon Well #1 Reason: No commercial production Move in and rig up rig. RIH w bailer to TD and check for ffilled or partially filled with water, proceed with P & A. recovered, check quantity of oil in wellbore and report to for further instructions.	TE -11 1-
Set 20 sack plug from 205 to 60 across perforation. Fill h	ole.
Cut off surface casing 3½ feet below ground level. Fill homud. Set 10 sack surface plug. Weld on plate and dry hole Reclaim location.	ole with drilling markers.
18. I hereby certify that the foregoing is true and correct	
SIGNED Manley Miller TITLE Pres.	DATE 11-6-86
(This space for Federal or State office use)	
CONDITIONS OF APPROVAL, IF ANY:	ROVED BY THE STATE UTAM DIVISION OF
DATE/_	L, GAS, AND MINING
*See Instructions on Reverse Side	K. Dag

Macdonald Resources, Inc.

6662 East Long Avenue Englewood, CO 80112 (303) 694-9447

February 21, 1987



DIVISION OF OIL. GAS & MINING

Mr. John Baza, Petroleum Engineer State of Utah Division of Oil, Gas, & Mining 3 Triad Center, Ste. 350 Salt Lake City, Utah 84180-1203

> re: Rainy River Resources dba St. Croix Exploration Sundry Notices & Reports on Well Abandonments in Emery County Utah

Dear Mr. Baza:

On behalf of Rainy River Resources, we have enclosed Sundry Notices & Reports for the nine wells which were recently abandoned.

Yours truly,

Bruce N. Gies

Encl.

cc: Mr. Stan Tyler

Rainy River Resources

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING



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DIVISION OF OIL, GAS, AND MINING		- 30
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(Other)	E: Report results of multiple completion on voletion or Recompletion Report and Log form.)	Well
Well #1 - Fluid level 20 ft. below surface, in Feb. 12, 1987 - Well #1 - Rig up, RIH, tag boom Mix & pump 20 sack cement plug at 190 ft. whice ment slurry. Install dry hole marker.	ottom @ 190 ft.	
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	Carry Sensol and Carl Sensol Sensol and Carl	
	MAR 0 2 1987	
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	DIVISION OF	
	OIL. GAS & MINING	
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SIGNED B.N. Gies Police TITLE Consultant	DATE 2/26/8	7
(This space for Federal or State office use)		
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APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	OF UTAH DINISION OF	

*See Instructions on Reverse Side

GAS, AND MINING